



2024-25 Design, Build, Fly Q&A #5

Boeing



Zawker

Raytheon
Missiles & Defense

AIAA
FOUNDATION

TEXTRON AVIATION

General Questions

1. Does the holder for the fuse have to be commercially available or can teams build their own methods of securing blade type fuses, being that the in house fuse holder is fully insulated?

Answer: As long as it functions as intended, meets all of the safety rules and passes tech inspection, it would be allowed.

2. Since the shape of the pylon is under our discretion, can it be a 2-part assembly where a pylon structure is a single component that attaches to the wing tip rib and locks with the adapter OR should be made as 3 different parts i.e one part that attaches to the tip rib, one part which is a pylon and one part which is the adapter?

Answer: As stated at the beginning of the question, the design of the pylon is up to each team to determine. There are no restrictions on the number of components that make up the pylon or its attachment to the wing.

3. Are power tools allowed to assist in installation of pylons during the staging period and GM?

Answer: Yes.

4. Can different cell count batteries such as 8S and 12S be swapped between missions, knowing they are both from different manufacturers and therefore have different specifications but still comply with the rules?

Answer: There is no requirement that the batteries used in each mission attempt must be the same.

5. May the internal fuel tank be empty in M1 and M3?

Answer: The internal fuel tank is not part of M1 and cannot be installed. There is no requirement to have an internal fuel tank for M3.

6. Does the X1 need its own avionics switch or fuse?

Answer: No.

7. If we have a hatch/cover in the wing, that conceals an internal feature to mount the pylon, can the lever (of a spring latch, for opening the cover), stick out of the lower surface of the wing?

Answer: Any features associated with the cover must be flush with the outer surface of the wing.

8. If teams are using LiPo batteries for the receivers, do those receiver batteries need C ratings on the manufacturer label?

Answer: No.